Application no.: 09/942,310 Docket no.: SGL-2019-UT

AMENDMENT

In the claims:

Please amend claims 17 and 18 as set forth hereafter in the complete listing of the claims.

Claims 1-16 (cancelled)

Claim 17 (currently amended): A method for predicting a human's Caucasian's capacity to metabolize a substrate of a CYP2D6 enzyme from the range of capacities in humans Caucasians, which comprises:

identifying a haplotype on each chromosome comprising nucleotides at three or more polymorphic sites in a CYP2D6 5' flanking region in a strand of a human nucleic acid, and predicting the capacity from the haplotype on each chromosome the nucleotides identified at the three or more polymorphic sites.

Claim 18 (currently amended): The method of claim 17, wherein the three or more polymorphic sites at positions in the CYP2D6 5' flanking region are selected from the group consisting of positions -1496, -1338 and -590; positions -1496, -912 and -590; positions -1496, -912 and -652; positions -1496, -1338, -912 and -652; positions -1496, -1338, -912 and -590; positions -1496, -912, -652 and -590; and positions -1496, -1338, -912, -652 and -590.

- Claim 19 (previously presented): The method of claim 18, wherein the three or more polymorphic sites correspond to positions -1496, -1338, and -590.
- Claim 20 (previously presented): The method of claim 18, wherein the three or more polymorphic sites correspond to positions -1496, -912 and -590.
- Claim 21 (previously presented): The method of claim 18, wherein the three or more polymorphic sites correspond to positions -1496, -1338 and -652.
- Claim 22 (previously presented): The method of claim 18, wherein the three or more polymorphic sites correspond to positions -1496, -912 and -652.

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- Claim 23 (previously presented): The method of claim 18, wherein the three or more polymorphic sites correspond to positions -1496, -1338, -912 and -652.
- Claim 24 (previously presented): The method of claim 18, wherein the three or more polymorphic sites correspond to positions -1496, -1338, -912 and -590.
- Claim 25 (previously presented): The method of claim 18, wherein the three or more polymorphic sites correspond to positions -1496, -912, -652 and -590.
- Claim 26 (previously presented): The method of claim 18, wherein the three or more polymorphic sites correspond to positions -1496, -1338, -912, -652 and -590.
- Claim 27 (previously presented): The method of claim 17, wherein the range of capacities is ultra extensive, extensive, intermediate and poor.
- Claim 28 (previously presented): The method of claim 17, wherein the range of capacities is between a metabolic ratio of less than 0.4 to a metabolic ratio of greater than 12.6.
- Claim 29 (previously presented): The method of claim 17, wherein the range of capacities is between a metabolic ratio of 0.03 to 236.
- Claim 30 (previously presented): The method of claim 17, which further comprises isolating the nucleic acid from the human.
- Claim 31 (previously presented): The method of claim 30, wherein the nucleic acid is DNA.
- Claim 32 (previously presented): The method of claim 31, wherein the DNA is single-stranded.